

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		(cach\$3 near4 (synchroniz\$3 updat\$3 refresh\$3 fresh\$3) ) and (prox\$3 near3 server\$1 near5 (list\$ subscrib\$5))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 13:32
L1	3513	(proxy adj server) and cache	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:36
L2	17	(cache\$1 near7 content\$1 near7 consisten\$4) and (server\$1 same prox\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:18
L3	8	1 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:17
L4	24286	(prox\$3 intermediat\$3) near5 server\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:19
L5	53455	(content\$3 near5 server\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:19
L6	6839	4 and 5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:19
L7	965	6 and (consisten\$5 synchroniz\$3 replica\$5) near5 server\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:20
L8	346	7 and cach\$3 near5 (updat\$3 subscrib\$5 synchroniz\$3 replica\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:21
L9	14	8 and cach\$3 near5 (updat\$3 subscrib\$5 synchroniz\$3 replica\$5) near5 lis\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:21

## EAST Search History

L11	29	(US-20020016828-\$).did. or (US-5787470-\$ or US-6256747-\$ or US-6173311-\$ or US-6138162-\$ or US-6038601-\$ or US-6012126-\$ or US-6477543-\$ or US-6128648-\$ or US-6263369-\$ or US-5931904-\$ or US-6182111-\$ or US-6219676-\$ or US-5734898-\$ or US-6604144-\$ or US-6205481-\$ or US-6343323-\$ or US-6260061-\$ or US-6438652-\$ or US-6389422-\$ or US-6377991-\$ or US-6311216-\$ or US-6438576-\$ or US-6542468-\$ or US-6343350-\$ or US-6212565-\$ or US-6324565-\$).did. or (JP-10222411-\$).did. or (JP-10222411-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:29
L13	0	11 and proxy\$3 near5 server near5 updat\$3 near5 notif\$4	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:46
L15	1	11 and content\$3 near5 server near5 updat\$3 near5 notif\$4	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:30
L16	1	11 and cach\$3 near5 server near5 updat\$3 near5 notif\$4	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:34
L17	1	11 and proxy\$3 near5 server near5 subscrib\$5	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:32
L18	0	17 and updat\$3 near5 notif\$4	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:35
L19	0	17 and chang\$3 near5 notif\$4	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:35
L20	9	subscrib\$5 near5 cach\$4 near5 notif\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:39
L21	0	subscrib\$5 near5 cach\$4 near5 consisten\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:38

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L22	3295	cach\$4 near5 consisten\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:38
L23	15875	22 and cach\$4 near5 notif\$5 inform\$3 near5 (updat\$3 chang\$3 consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:40
L24	179	22 and cach\$4 near5 (notif\$5 inform\$3) near5 (updat\$3 chang\$3 consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:48
L25	91	24 and cach\$4 near5 list\$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:40
L26	17	25 and @ad<"19990804"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:52
L27	10	11 and proxy\$3 near5 server near5 (list\$3 tabl\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:49
L28	0	27 and server\$4 near5 (notif\$5 inform\$3) near5 (updat\$3 chang\$3 consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:48
L29	0	27 and (notif\$5 inform\$3) near5 (updat\$3 chang\$3 consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:48
L30	0	27 and (notif\$5 inform\$3) near5 (updat\$3 discard\$3 delet\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:52
L31	846	proxy\$3 near5 server near5 (list\$3 tabl\$3)	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2007/12/03 10:49
L32	39	31 and (notif\$5 inform\$3) near5 (updat\$3 discard\$3 delet\$3 chang\$3) near5 (server\$3 prox\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:52

## EAST Search History

L33	1	32 and @ad<"19990804"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:53
S1	218	709/235.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/07 15:57
S2	780	709/219.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/27 15:56
S3	31	web adj cache	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/11 14:54
S4	72	web near cache	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/10/02 14:37
S5	473	web and URL and HTTP and cache	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 08:58
S6	214	(web and URL and HTTP and cache) and proxy	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 09:00
S7	188	((web and URL and HTTP and cache) and proxy) and content\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 09:02
S8	0	(((web and URL and HTTP and cache) and proxy) and content\$2) and DWS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 09:28
S9	27	(((web and URL and HTTP and cache) and proxy) and content\$2) and (HTTP adj GET)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/16 15:09

## EAST Search History

S10	2	web adj cache adj consisten\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 09:54
S11	103	cache near prox\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 09:55
S12	2	web near cache near prox\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 09:59
S13	0	HTTP adj PUT adj DWS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:00
S14	0	HTTP adj GET adj IMS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:00
S15	0	HTTP adj GET adj DWS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:01
S16	0	HTTP adj DWS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:01
S17	0	HTTP near DWS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:02
S18	0	DWS and HTTP	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:02
S19	0	DWS and WEB	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:02

## EAST Search History

S20	0	HTTP adj GET adj IMS	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:04
S21	288	(proxy adj server) and cache	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/12/03 10:16
S22	229	((proxy adj server) and cache) and web	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:06
S23	159	(((proxy adj server) and cache) and web ) and HTTP	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:06
S24	19	(((proxy adj server) and cache) and web ) and HTTP) and consistency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/16 15:08
S25	277	(cache and (web) and prox\$2) and HTTP	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:15
S26	267	((cache and (web) and prox\$2) and HTTP) and request	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:16
S27	264	(((cache and (web) and prox\$2) and HTTP) and request) and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/16 15:10
S28	156	(((cache and (web) and prox\$2) and HTTP) and request) and update	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:17
S29	149	(((cache and (web) and prox\$2) and HTTP) and request) and update) and chang\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:18

## EAST Search History

S30	149	(((((cache and (web) and prox\$2) and HTTP) and request) and update) and chang\$5) and server\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:19
S31	137	(((((cache and (web) and prox\$2) and HTTP) and request) and update) and chang\$5) and server\$2) and content\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:20
S32	131	(((((((cache and (web) and prox\$2) and HTTP) and request) and update) and chang\$5) and server\$2) and content\$2) and client	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:20
S33	46	((((((cache and (web) and prox\$2) and HTTP) and request) and update) and chang\$5) and server\$2) and content\$2) and client ) and discard\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 10:21
S34	2	("5734831").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 15:02
S35	1	proxy adj server adj table	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/09/28 16:10
S36	23	(synchroniz\$7 near5 cach\$3) and HTTP	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/10/01 09:54
S37	36	((synchroniz\$7 or update\$3) near5 cach\$3) and HTTP same (multipl\$3 or pluralit\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/10/01 09:55
S38	2	("6256747").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/10/02 14:20
S39	2	discard adj cache\$2 adj content\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/10/02 14:39

## EAST Search History

S40	12	update adj cache\$2 adj content\$2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2001/10/02 14:39
S41	148	cache\$1 near7 content\$1 near7 consisten\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:13
S42	5	(cache\$1 near7 content\$1 near7 consisten\$4) and (server\$1 same prox\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 10:16
S43	2	(cache\$1 near7 content\$1 near7 consisten\$4) and (subscri\$6 near7 content\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 15:18
S44	19	(cache\$1 near7 content\$1 near7 consisten\$4) and (server\$1 same client\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:10
S45	4	(cache\$1 near7 content\$1 near7 consisten\$4) and (prox\$4 near5 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:11
S46	162	cache\$1 near10 content\$1 near10 consisten\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:12
S47	6	(cache\$1 near10 content\$1 near10 consisten\$4) and (prox\$5 near7 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:12
S48	379	cache\$1 same content\$1 same consisten\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:14
S49	15	(cache\$1 same content\$1 same consisten\$4) and (prox\$5 near5 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:21

## EAST Search History

S50	468	cache\$1 near7 content\$1 near7 server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/10 10:32
S51	2	(cache\$1 near7 content\$1 near7 server\$1) and (consisten\$5 near7 prox\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:26
S52	11	(cache\$1 near7 content\$1 near7 server\$1) and (prox\$5 near5 server\$1 near5 list\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/09 16:28
S53	0	(cache\$1 near5 conten\$5 near5 consisten\$6) and (prox\$4 same content\$1 same server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/10 10:35
S54	1	(cache\$1 near5 conten\$5 near5 consisten\$6) and (prox\$4 same server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/10 10:56
S55	4	(cache\$1 near5 conten\$5 near5 consisten\$6) same server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/10 12:46
S56	0	(cache\$1 near5 conten\$5 near5 consisten\$6) same (prox\$3 near5 list\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/10 12:46
S57	0	(cache\$1 near5 conten\$5 near5 consisten\$6) and (prox\$3 near5 list\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2002/10/10 12:46
S58	121	cache\$1 near5 conten\$5 near5 consisten\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:57
S59	28	web near4 cach\$4 near5 consisten\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:45

## EAST Search History

S60	1337	cach\$4 near5 manager\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:19
S61	3	(cach\$4 near5 manager\$1) and (subscri\$6 near5 prox\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:19
S62	5	(cach\$4 near5 manager\$1) and (server\$4 near5 (updat\$4 or specif\$5) near5 consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 14:50
S63	10	content\$1 near3 server\$1 near7 (spcifi\$5 or list\$4 or subscri\$6) near5 prox\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 14:53
S64	0	prxo\$4 near3 server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/11 14:55
S65	197	prox\$4 near3 server\$1 near5 (list\$4 or subscri\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/11 15:27
S66	350	(content\$1 near3 server\$1) same (prox\$4 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/11 15:01
S67	16	(prox\$4 near3 server\$1 near5 (list\$4 or subscri\$6)) and (content\$1 near4 server\$1) and consisten\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/11 14:58
S68	54	((content\$1 near3 server\$1) same (prox\$4 near3 server\$1)) and ((specif\$4 or list\$4) near5 prox\$4 near5 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/11 15:03
S69	5997	cach\$4 near5 manage\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:19

## EAST Search History

S70	8	(cach\$4 near5 manage\$5) and (subscri\$6 near5 prox\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:20
S71	67	(prox\$4 near3 server\$1 near5 (list\$4 or subscri\$6)) and (cach\$4 near5 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/11 15:29
S72	105	web near4 cach\$4 near5 manag\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:46
S73	1	(web near4 cach\$4 near5 manag\$5 ) and (list\$4 near5 prox\$4 near5 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:48
S74	0	(web near4 cach\$4 near5 manag\$5 ) and (list\$4 near5 subscri\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:48
S75	3	(web near4 cach\$4 near5 manag\$5 ) and (list\$4 near5 local)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:49
S76	150	server\$1 near5 list\$4 near5 prox\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:50
S77	145	server\$1 near5 list\$4 near5 prox\$4 near3 server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:50
S78	35	(server\$1 near5 list\$4 near5 prox\$4 near3 server\$1) and (content\$1 near4 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:55
S79	5422	cach\$4 near4 content\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:56

## EAST Search History

S80	319	cach\$4 near4 content\$4 near5 manag\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:56
S81	0	(cach\$4 near4 content\$4 near5 manag\$5) same(subscri\$6 same consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:58
S82	0	(cach\$4 near4 content\$4 near5 manag\$5) same (subscri\$6 same consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:58
S83	48	(cach\$4 near4 content\$4 near5 manag\$5) and (subscri\$6 and consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 15:58
S84	7	chach\$4 near4 coheren\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 16:08
S85	3645	cach\$4 near4 coheren\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 16:11
S86	3501	cach\$4 near3 coheren\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 16:11
S87	4	(cach\$4 near3 coheren\$6) and (prox\$4 near3 server\$1 near5 list\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/11 16:12
S88	26	content\$1 near5 consisten\$4 near5 server\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/24 12:13
S89	122	(list\$4 or specify\$4) near5 subscri\$6 near5 content\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/24 10:44

## EAST Search History

S90	3	((list\$4 or specify\$4) near5 subscri\$6 near5 content\$4) and (server\$4 near10 prox\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/24 10:46
S91	52	((list\$4 or specify\$4) near5 subscri\$6 near5 content\$4) and ((server\$4 or client\$4) near5 content\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/24 10:47
S92	2	"6317786".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 11:00
S93	2	"6279001".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 11:00
S94	2	"6314463".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 11:01
S95	101	web\$4 near3 cach\$4 near10 manag\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 11:58
S96	46	(web\$4 near3 cach\$4 near10 manag\$6) and ((list\$4 or specify\$5 or subscrib\$5) near5 (prox\$4 or server\$1 or client\$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 12:03
S97	8999	cach\$4 near5 prox\$4 server\$4 near5 list\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 12:04
S98	263	(cach\$4 near5 prox\$4 server\$4 near5 list\$4) and (subscrib\$6 near5 content\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 12:08
S99	0	((cach\$4 near5 prox\$4 server\$4 near5 list\$4) and (subscrib\$6 near5 content\$1)) and (subcri\$4 near3 manag\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 12:07

## EAST Search History

S10 0	0	((cach\$4 near5 prox\$4 server\$4 near5 list\$4) and (subscrib\$6 near5 content\$1)) and (subscrib\$4 near3 manag\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 12:07
S10 1	285	(cach\$4 near5 prox\$4 server\$4 near5 list\$4) and (notif\$4 near5 updat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 12:08
S10 2	22	((cach\$4 near5 prox\$4 server\$4 near5 list\$4) and (subscrib\$6 near5 content\$1)) and (notif\$4 near5 updat\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 12:09
S10 3	5218	content\$1 adj2 server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/24 12:14
S10 4	208	(content\$1 adj2 server\$1) same (prox\$4 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/24 12:15
S10 5	13	(content\$1 adj2 server\$1) same ((list\$4 or specif\$5) near5 prox\$4 near5 server\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/03/24 12:17
S10 6	6804	content\$4 adj3 server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 15:31
S10 7	756	(content\$4 adj3 server\$1) and prox\$4 near3 server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 15:40
S10 8	756	(content\$4 adj3 server\$1) and (prox\$4 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 15:33
S10 9	29	((content\$4 adj3 server\$1) and (prox\$4 near3 server\$1)) and ((spcif\$4 or list or subscri\$6) near5 content\$4 near5 file\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 15:34

## EAST Search History

S11 0	303	prox\$4 near3 server\$1 near5 manag\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 15:41
S11 1	23	(prox\$4 near3 server\$1 near5 manag\$5) and (prox\$4 near3 server\$1 near3 list\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/03/24 15:42
S11 2	12	content\$1 near4 server\$4 near5 (list\$3 or subscri\$6) near5 prox\$3 near5 server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 09:49
S11 3	205	server\$4 near5 (list\$3 or subscri\$6) near5 prox\$3 near5 server\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 09:49
S11 4	24	(server\$4 near5 (list\$3 or subscri\$6) near5 prox\$3 near5 server\$1) and (content\$1 near5 subscri\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 09:58
S11 5	6725	cach\$4 near5 (updat\$3 or synchroniz\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 10:01
S11 6	345	(cach\$4 near5 (updat\$3 or synchroniz\$5)) and (server\$1 near5 (spcif\$5 or list\$3) near5 (server\$1 or client\$1 or subscri\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 10:02
S11 7	7514	cach\$4 near5 (updat\$3 or synchroniz\$5 or consisten\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 10:02
S11 8	377	(cach\$4 near5 (updat\$3 or synchroniz\$5 or consisten\$5)) and (server\$1 near5 (spcif\$5 or list\$3) near5 (server\$1 or client\$1 or subscri\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 10:02
S11 9	180	((cach\$4 near5 (updat\$3 or synchroniz\$5 or consisten\$5)) and (server\$1 near5 (spcif\$5 or list\$3) near5 (server\$1 or client\$1 or subscri\$6))) and ((notif\$5 or send\$4 or inform\$4 or updat\$4 or discard\$4) near5 updat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 10:05

## EAST Search History

S12 0	31	((cach\$4 near5 (updat\$3 or synchroniz\$5 or consisten\$5)) and (server\$1 near5 (spcif\$5 or list\$3) near5 (server\$1 or client\$1 or subscri\$6))) and ((notif\$5 or send\$4 or inform\$4 or updat\$4 or discard\$4) near5 updat\$4 near5 content\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 10:32
S12 1	1	"6205481".pn. and (list\$4 near5 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 11:06
S12 2	0	"6205481".pn. and (subscri\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/04/10 11:07
S12 3	1	"6205481".pn. and (content\$1 near10 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/04/15 13:39
S12 4	10	((content\$1 near3 server\$1) near6 (subscrib\$3 specif\$3 list\$1 display\$3 includ\$3) near5 (prox\$3 near3 server\$1)) and (cach\$3 near5 (updat\$4 discard\$3 synchroniz\$3 chang\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:14
S12 5	54	((content\$1 near3 server\$1) near6 (subscrib\$3 specif\$3 list\$1 display\$3 includ\$3) near5 (prox\$3 near3 server\$1)) and (cach\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 10:50
S12 6	35	cach\$3 near5 (prox\$3 near3 server\$1) near5 manag\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 11:12
S12 7	6921	cach\$3 near5 manag\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 12:43
S12 8	8	(cach\$3 near5 manag\$5) and (prox\$3 near3 server near3 list\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 11:13
S12 9	77	(content\$1 near3 server\$1) near6 (subscrib\$3 specif\$3 list\$1 display\$3 includ\$3) near5 (prox\$3 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 11:19

## EAST Search History

S13 0	80	prox\$3 near5 cach\$3 near5 manag\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 12:44
S13 1	14	(prox\$3 near5 cach\$3 near5 manag\$5) and (prox\$3 near5 list\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 12:50
S13 2	6917	cach\$3 near4 (synchroniz\$3 updat\$3 refresh\$3 fresh\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 12:53
S13 3	14855	cach\$3 near3 control\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 13:33
S13 4	128	(cach\$3 near3 control\$4) and (cach\$3 near5 server near5 prox\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 13:34
S13 5	9240	(cach\$3 near5 (updat\$4 discard\$3 synchroniz\$3 chang\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:16
S13 6	9929	(cach\$3 near5 (updat\$4 discard\$3 synchroniz\$3 chang\$3 consisten\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:16
S13 7	182	((cach\$3 near5 (updat\$4 discard\$3 synchroniz\$3 chang\$3 consisten\$3))) and ((list\$4 specif\$3 subscrib\$3 subscript\$3) near5 prox\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:18
S13 8	90	(((cach\$3 near5 (updat\$4 discard\$3 synchroniz\$3 chang\$3 consisten\$3))) and ((list\$4 specif\$3 subscrib\$3 subscript\$3) near5 prox\$3)) and (notif\$3 broadcast\$3) near5 (updat\$3 new chang\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:32
S13 9	37	server\$1 near5 cach\$3 near5 (client\$1 subscrib\$4) near3 list\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:34

## EAST Search History

S14 0	29	(server\$1 near5 cach\$3 near5 (client\$1 subscrib\$4) near3 list\$1) and (updat\$3 synchroniz\$4 discard\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:39
S14 1	6829	cach\$3 near5 (updat\$3 synchroniz\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:40
S14 2	496	(cach\$3 near5 (updat\$3 synchroniz\$4)) and (server\$1 same prox\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:48
S14 3	32	(cach\$3 near5 (updat\$3 synchroniz\$4)) and (server\$1 same (prox\$3 near5 list\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:41
S14 4	117	((cach\$3 near5 (updat\$3 synchroniz\$4)) and (server\$1 same prox\$3)) and (prox\$3 near4 (list\$3 specif\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 14:59
S14 5	49	cach\$3 near4 (prox\$3 near4 (list\$3 specif\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 15:45
S14 6	172	server\$3 near5 list\$4 near5 prox\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 15:46
S14 7	64	(server\$3 near5 list\$4 near5 prox\$4) and (cach\$3 near5 server\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/23 15:47
S14 8	609	cach\$3 near5 synchroniz\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/24 07:29
S14 9	22	(cach\$3 near5 synchroniz\$4) and ((subscrib\$4 subscrip\$4) near5 cach\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/24 07:30

## EAST Search History

S15 0	23	discard near4 cach\$3 near4 content\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/25 08:12
S15 1	55	discard\$3 near4 cach\$3 near4 content\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/06/25 08:12
S15 2	890	((specif\$4 list\$3 show\$3 display\$3) near5 proxy\$3 near5 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/14 14:47
S15 3	28992	((specif\$4 list\$3 show\$3 display\$3) near5 client\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/14 14:25
S15 4	3	((((specif\$4 list\$3 show\$3 display\$3) near5 proxy\$3 near3 server\$1)) and (cach\$4 near5 (chang\$4 updat\$4) near5 (notif\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/14 14:28
S15 5	843	((specif\$4 list\$3 show\$3 display\$3) near5 proxy\$3 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/14 14:48
S15 6	417	((specif\$4 list\$3) near5 proxy\$3 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/14 14:50
S15 7	11	(content\$1 near3 server\$4 near5 (specif\$4 list\$3) near5 proxy\$3 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/14 14:51
S15 8	33	(content\$1 near5 server\$4 near5 (specif\$4 list\$3) near5 proxy\$3 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/14 14:51
S15 9	464	(server\$4 near5 (specif\$4 list\$3) near5 proxy\$3 near3 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/14 14:53

## EAST Search History

S16 0	0	"6324565.pn"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 13:11
S16 1	0	"6324565.pn" and (content\$3 near10 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 13:11
S16 2	2	"6324565".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 13:11
S16 3	2	"6324565".pn. and (content\$3 near10 server\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 13:19
S16 4	2	"6324565".pn. and (network)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 13:13
S16 5	1	"6324565".pn. and (cache\$2 near5 content\$3 )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 13:20
S16 6	1383	HTTP near5 get	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:18
S16 7	3	(HTTP near5 get) same (subs\$6 near5 header)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:09
S16 8	3711	"6377991.pn" aand (http near7 get\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:15
S16 9	0	"6377991".pn. and (http near7 get\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:17

## EAST Search History

S17 0	1	"6377991".pn. and (http same get\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:15
S17 1	1028	HTTP near2 get	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:19
S17 2	18	(HTTP near2 get) same (cach\$3 same header\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:40
S17 3	108525	cach\$4 near5 updat\$4 notif\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:41
S17 4	97	cach\$4 near5 updat\$4 near5 notif\$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:41
S17 5	3	"65" same (popular\$4 near5 file\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:42
S17 6	0	(cach\$4 near5 updat\$4 near5 notif\$5) same (popular\$4 near5 file\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:42
S17 7	0	(cach\$4 near5 updat\$4 near5 notif\$5) same (hit\$4 near5 file\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:42
S17 8	4	(cach\$4 near5 updat\$4 near5 notif\$5) same (hit\$4 near5 cach\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/17 14:42
S17 9	1	"6324565".pn. and (web\$4 same cach\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:07

## EAST Search History

S18 0	549	popular\$3 near5 file\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:11
S18 1	35	(popular\$3 near5 file\$3) same cach\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:09
S18 2	210	popular\$3 near5 cach\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:15
S18 3	9	(popular\$3 near5 cach\$3) and ((updat\$4 chang\$4) near6 notif\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/16 15:09
S18 4	0	popular\$3 near5 cach\$3 near5 (updat\$4 chang\$4) near5 notif\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:46
S18 5	150	cach\$3 near5 (updat\$4 chang\$4) near5 notif\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:16
S18 6	6	(cach\$3 near5 (updat\$4 chang\$4) near5 notif\$4) and (popular\$3 near5 cach\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/16 15:10
S18 7	0	popular\$3 near5 cach\$3 near5 notif\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:46
S18 8	2	popular\$3 near5 cach\$3 near5 subscri\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:47
S18 9	246	cach\$3 near5 subscri\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 11:01

## EAST Search History

S19 0	17	(cach\$3 near5 subscri\$4) and (popular\$4 near5 cach\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 10:48
S19 1	0	only near9 popular\$3 near4 cach\$3 near5 subscri\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 11:02
S19 2	2	popular\$3 near4 cach\$3 near5 subscri\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 11:02
S19 3	0	old\$3 near4 cach\$3 near5 subscri\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/10/22 11:02
S19 4	162	((((proxy near5 server) and cache) and web ) and HTTP) and consistency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/16 15:08
S19 5	150	((((proxy near3 server) and cache) and web ) and HTTP) and consistency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/16 15:09
S19 6	10	(popular\$2 near5 cach\$3) and ((updat\$4 chang\$4) near6 notif\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/16 15:10
S19 7	161	((web and URL and HTTP and cache) and proxy) and content\$3) and (HTTP adj GET)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/16 15:10
S19 8	161	((web and URL and HTTP and cache) and proxy) and content\$4) and (HTTP adj GET)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/16 15:10
S19 9	1860	((cache and (web) and prox\$4) and HTTP) and request) and network	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/03/16 15:10

## EAST Search History

S20 0	7	(cach\$2 near5 (updat\$4 chang\$4) near5 notif\$4) and (popular\$3 near5 cach\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/16 15:11
S20 1	19	cach\$4 near5 popular\$4 near5 file\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/07 15:58
S20 2	2356	http near5 get	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/02 15:04
S20 3	0	S202 near5 sub\$3 near5 head\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/02 15:06
S20 4	30	S202 and sub\$3 near5 head\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/02 15:06
S20 5	0	(list\$3 tabl\$3 member\$3) near5 prox\$3 near5 server\$3 near5 (subscirb\$3 subscript\$5) near5 cach\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 10:18
S20 6	731	(list\$3 tabl\$3 member\$3) near5 prox\$3 near5 server\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 10:18
S20 7	217	(subscirb\$3 subscript\$5) near5 cach\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 10:18
S20 8	4	S206 and S207	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 10:20

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S21 0	241747	S209 ans prox\$3 same server\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/22 10:21
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### 1 Aging through cascaded caches: performance issues in the distribution of web



Edith Cohen, Haim Kaplan

August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '01**, Volume 31 Issue 4

Publisher: ACM Press

Full text available: [pdf\(327.13 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Web is a distributed system, where data is stored and disseminated from both *origin servers* and *caches*. Origin servers provide the most up-to-date copy whereas caches store and serve copies that had been cached for a while. Origin servers do not maintain per-client state, and weak-consistency of cached copies is maintained by the origin server attaching to each copy an expiration time. Typically, the lifetime-duration of an object is fixed, and as a result, a copy fetched direc ...



### 2 Performance: Cooperative leases: scalable consistency maintenance in content distribution networks



Anoop Ninan, Purushottam Kulkarni, Prashant Shenoy, Krithi Ramamritham, Renu Tewari  
May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available: [pdf\(201.14 KB\)](#)

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In this paper, we argue that cache consistency mechanisms designed for stand-alone proxies do not scale to the large number of proxies in a content distribution network and are not flexible enough to allow consistency guarantees to be tailored to object needs. To meet the twin challenges of scalability and flexibility, we introduce the notion of cooperative consistency along with a mechanism, called *cooperative leases*, to achieve it. By supporting &Dgr;-consistency semantics and by using ...

**Keywords:** content distribution networks, data consistency, data dissemination, dynamic data, leases, pullC, push, scalability, world wide web



### 3 The content and access dynamics of a busy Web site: findings and implications



Venkata N. Padmanabhan, Lili Qiu  
August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication SIGCOMM '00**, Volume 30 Issue 4

Publisher: ACM Press



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at which the **server** agrees to **notify** a proxy of updates to an object. ... While leases is a pure **server-based** approach to **cache consistency**, ...  
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Apache web **server** and the Squid **proxy cache** and demonstrate its ..... Local **cache miss**.  
**Update membership list Sec 2.4.** 3.1 Leader Selection ...  
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**consistency** between the **server** and the **cache**. **Content** stored at ..... **Invalidation for Proxy Cache Coherency**," Seventh International ...  
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### Scalable consistency maintenance in content distribution networks ...

Updates to the Object. In the event that the object is modified at the **server**, each **proxy caching** the object needs to be notified of the **update**. ...  
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### Network Working Group M. Hamilton Internet-Draft JANET Web Cache ...

The main goal is to enable **proxy caching** and **content** distribution of large .... and **update** redirects: in this scenario the RUP **server** would **notify** the RUP ...  
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### Caching and Prefetching for Web Content Distribution

If t is the delay between the **proxy** and **server**, a strong **consistency** .... deployed reverse caches near the origin **server** to support dynamic **content caching**. ...  
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It thus enables **proxy caching** and **content** distribution of large amounts of ..... (2)  
**ObjectVolume update**: the invalidation **server** replies with the journal ...  
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### [PDF] Basis Token Consistency: Supporting Strong Web Cache Consistency

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to proactively **notify** caches when **content** is modified. Unfor- .... Finally, this combined event **list** is fed to the **server-cache** simulator. ...  
[www.cs.bu.edu/fac/best/res/papers/gi02.pdf](http://www.cs.bu.edu/fac/best/res/papers/gi02.pdf) - [Similar pages](#)

### nlanr caching workshop report

Summary: PCV yields fewer requests and connections between **proxy** and **server**: best combination of **cache consistency** and costs: can be implemented with HTTP ...  
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### Evaluating a New Approach to Strong Web Cache Consistency with ...

The Content Converter creates a **list** of updates for each object, keeping track of **update** time ..... Piggyback **server** invalidation for **proxy cache** coherency. ...  
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flexible mechanism for the **server** to **notify** the **cache** of the change. .... **cache** to **discard** the **content**. To **update** **content** stored in the ...

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**Engineering server-driven consistency for large scale dynamic web ...**

Through a simulation study that uses both **server** side access traces and **update** logs, we demonstrate that **server-driven consistency** allows clients to **cache** ...

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**Evaluation of Strong Consistency Web Caching Techniques**

For the same **consistency** algorithm, a browser **cache** will have different performance impact on the system compared to a **proxy cache** or **server** side. **cache** ...

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**Cache consistency** is a major impediment to scalable **content** > > delivery. ... **server** to the **caching proxy**, which then serves the document to end- ...

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**System and method for achieving strong data consistency - Patent ...**

When the writer/content provider wishes to **update** an object it contacts the .... The **server** removes the **cache** from the holders **list** for the object when the ...

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**A Scalable Web Cache Consistency Architecture\***

**content** the **server** thinks is most current. Thus, the most practical goal is to merely limit .... dition, we let each downstream **cache** **notify** its immediate ...

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**Web server content replication - US Patent 7035943**

Also, it is helpful to identify **content update** failures, take a failed **server** out ..... The **caching server** can use this **list** to **discard** outdated **content** ...

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The **content** and the destination node(s) of the notification of **update** ..... The **server** removes the **cache** from the holders **list** for the object when the ...

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**Cache consistency** is a major impediment to scalable **content** delivery. .... there is no synchronization request, just the **server's update**. ...

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**Cache consistency** is a major impediment to scalable **content** > > delivery. .... synchronization request, just the **server's update**. To account ...

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### [PDF] Distributed Web Cache Final Report.doc

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Manager. **Content**. **Cache**. Affinity. Manager. Web. Applications. Publisher and. Subscriber.

Network. Dispatcher. **Update**. Send. Store. **Proxy** and. Web Server ...

[chrisandtrudi.com/Chris/Portfolio/Distributed%20Web%20Cache%20Final%20Report.pdf](http://chrisandtrudi.com/Chris/Portfolio/Distributed%20Web%20Cache%20Final%20Report.pdf) - Similar pages

### Evaluation of Strong Consistency Web Caching Techniques

object is changed on a Web **server**, it is the **server's** responsibility to **notify** all the caches. who **cache** that object to **delete** their stale copies. ...

[www.springerlink.com/index/V3014N28L4315028.pdf](http://www.springerlink.com/index/V3014N28L4315028.pdf) - Similar pages

### A Scalable Web Cache Consistency Architecture\*

**content** the **server** thinks is most current. Thus, the most. practical goal is to merely limit ..... dition, we let each downstream **cache** **notify** its immediate ...

[portal.acm.org/citation.cfm?doid=316194.316219](http://portal.acm.org/citation.cfm?doid=316194.316219) - Similar pages

### Web server content replication - US Patent 7035943

Distributed storage management system having a **cache server** and method therefor .....

The caching **server** can use this **list** to **discard** outdated **content**. ...

[www.patentstorm.us/patents/7035943-description.html](http://www.patentstorm.us/patents/7035943-description.html) - 116k - Cached - Similar pages